INDIA is having a “POWER FULL” problem. The SOLUTION is inevitable - switch to more RENEWABLE ENERGY SOURCE, particularly solar energy in view of high solar incidence. As of 31st March 2016, total solar power capacity was 5,776 MW i.e., a mere 3% of coal based power.

With about 300 clear, sunny days in a year, India's theoretically calculated solar energy incidence on its land area alone is about 5,000 trillion kilowatt hours (kWh) per year (or 5 E Wh/yr). The solar energy available in a year exceeds the possible energy output of all fossil fuel energy reserves in India. The daily average solar power plant generation capacity over India is 0.25 kWh per sqm of used land area, which is equivalent to about 1,500 –2,000 peak (rated) capacity operating hours in a year with the available commercially proven technologies.

Indian government reportedly committed to bring down carbon foot-print of India by 20% by 2020, i.e., reduction of about 322 million tons of CO2 per year. Remarkable efforts are needed to fulfil this commitment.

- Under Clean Development Mechanism (CDM), India’s first 5 MW of installed capacity solar power project was registered on 16 May 2011. The project is in Sivagangai Village, Sivaganga district, Tamil Nadu.
- In January 2015, the Indian government significantly expanded its solar plans, targeting US$100 billion of investment and 100 GW of solar capacity by 2022.
- The Cabinet Committee on Economic Affairs in December 2015, scaled up of budget from Rs 600cr. to Rs 5000cr. for implementation of Grid Connected Rooftops systems by installation of 4200 MW by 2019-20 through the residential, government, social and institutional sector (hospitals, educational institutions etc.)
- The Cabinet Committee on Economic Affairs approved in January 2016 over 5,000 MW of Grid-Connected Solar PV Power Projects on build, own and operate (BOO) basis to be implemented by Solar Power Developers (SPDs) with Viability Gap Funding (VGF) with an investment of about Rs 30,000cr. by FY 2018-19
- The Government sets the ambitious target of generating 100 GW of solar power by the year 2021-22 under the National Solar Mission, 60 GW ground mounted grid-connected solar power and 40 GW through roof-top grid interactive solar power to fulfil the 100 GW of solar power.
- India to achieve 40% cumulative electric power capacity from non-fossil fuel based energy resources by 2030 with the help of transfer of technology and low cost International Finance including from Green Climate Fund
Profile of Participating Entities

- Leading national & international solar companies
- Policy makers and administrators
- State Level Government Agencies
- Senior Managers from Private and Public sector units
- Solar Energy Service Providers
- Engineering and Construction companies
- Energy Consultants and Project Developers
- Equipment Manufacturers
- Technology Providers
- Banks and Financial Institutions
- Legal Experts
- Environmental Consultants
- Logistic service providers
- Academic Institutions

The CHALLENGES Ahead:

- Land availability for solar power plants may pose a strain on India’s already constrained land resource. Currently approximately 1 km² (250 acres) for every 50 MW generated, this means additional land requirement of about 83,333 acres every year till 2022 from now.

- Deficit in manufacturing of quality & reliable indigenous PV cells at competitive prices.

- Present PV cell manufacturing capacity in India is 297 MW as against the target requirement of at least 15 - 20 GW addition every year to fulfil the target of 100GW by 2022.

- Further, states like Gujarat, Rajasthan, and Tamil Nadu etc have not yet mandated any DCR in their policies.

- Huge investment is required for transmission; up-gradation of infrastructure in order to utilize power generated though Renewable Energy sources.

- Adopting Building Integrated Photovoltaic (BIPV)

- Entire manufacturing chain mostly dependent on import of components from other countries this is why the Government is encouraging backward integration to expand the chain of production in India and Indian manufacturers of solar technologies is expected to play a bigger role.

- And INNOVATION.....

Objective

To discuss issues and challenges faced by stakeholders in implementation of green energy commitments of India so as to facilitate conversion into actual projects on grounds, innovatively.
The solar power industry is going through a tremendous burst of creativity and innovation as more people switch to solar energy instead of energy generated by fossil fuel-burning power plants. The latest generation of solar photovoltaic (PV) cells is far more efficient than their predecessors. Many are thinner or blend into a roof better. In addition, forward thinking people determined to harness the sun’s energy in exciting new ways are developing other types of systems.

The future of the solar industry depends on a combination of factors - technological advancements, new innovation in manufacturing and system design, reforms in the electricity market, collaboration with and support from electricity regulators and policymakers.

In order to discuss the above and related issues, Mission Energy Foundation with the support of DIPP (Ministry of Commerce & Industry) and Ministry of New & Renewable Energy, Government of India, is organizing a summit “Roadmap for Innovations in Solar Energy” RISE 2016 to be held on 23 & 24 September 2016 at Hotel Hilton, Mumbai.

The theme of RISE 2016 is to discuss the recent innovations in solar photovoltaics and with its aim to assemble together the stakeholders of solar industry, academics and government authorities to exchange ideas on new innovations in generation of solar power by photovoltaics. Around 150 delegates from various industries are expected to participate, exchange ideas and part in the deliberations.

**KEY ISSUES - RISE 2016**

- **Rooftop Solar Installations**
  - Policy Initiative, State Initiative, Implementation issues, Financing and Net Metering

- **Solar Power Plant / Solar Park**
  - Role of DISCOMs, Land Acquisition, Regulatory issues in solar Power Plant / Solar Park, Status of Project Implementation in the key States, Implementation issues, New Sourcing of Financing of RE Project / Consolidation of Sector

- **Manufacturing: ‘Make in India’**
  - Domestic Solar PV – Prospect and Challenges, Present Scenario entire value chain for Manufacturing of solar sector – Look forward, Present capacity and addition, Start Up in Renewable Energy and Technology transfer for efficiency of solar equipment

**Benefits of Attending**

- To discuss the issues and solutions concerning the implementation of Government ambitious programme of installing 100GW of Solar Power in the country by 2022.
- Sharing experiences of successful projects the participants will be able to set the benchmark of their performance and develop system of effective project management of solar installation.
- To discuss the support needed from concerned State Governments regarding various issues of projects.
- Know the capability of local manufacturers and suggest improvement.
- Showcase the investment potential in solar sector to rest of the world to achieve the target for installation of solar power.
- Provide platform for entrepreneurs, financers, mentors and others stakeholders to engage and collaborate across the world, to share ideas, best practices; develop solutions and partnerships that benefit India.
23 September 2016

10:30 Hrs Inaugural Function

Welcome Address
Shri Ashwinkumar Khatri, DG – Mission Energy Foundation

Keynote Address
Shri Sandeep Koppikar, CTO - Waaree Energies Limited
Shri Ajay Kumar Khanna, Chief Technology Officer – Titlis Energy Pvt Ltd

Network Tea Break

11:30 Hrs Session 1: Recent Development & Technology Roadmap

Area of Discussion Includes: Growth and business opportunities for the sector; Mainstreaming Solar; RE technology development and commercialization; India’s proximity allowing for easy import of technology and products; Collaboration in energy technology to secure future supplies, fostering a sustainable local industry.

Invited Speakers:
• Shri Amit Kumar Mittal, Technical Director - First Solar
• Shri N Venkataraman, Promoter - Solartherm Energy Ventures
• Shri Sandeep Koppikar, CTO - Waaree Energies Limited

Network Lunch Break

14:00 Hrs Evolution in Renewable Energy Technologies

Area of Discussion Includes: Enhancing quality of products and R&D efforts by connecting entrepreneurs with technology capabilities; Latest technology trends in solar cells and modules; Manufacturing of critical raw materials and components; PV Installation- Steps to ensure reliability; Advantage of high quality solar panels; High quality proven inverters; Solar mounting solutions.

Invited Speakers:
• Shri Hiren Shah, Sr. Director - Energy Storage Solutions – Delta Power Solutions
• Shri Sripam Saurabh, Engineering Leader for Energy & power technology – UL India
• Shri B M Shah, DE, SLDC – GETCO
• Shri Ajay Kumar Khanna, Chief Technology Officer – Titlis Energy Pvt Ltd

Network Tea Break

16:00 Hrs Realising the True Potential of Rooftop Solar and Off-Grid Solutions

Area of Discussion Includes: Strategising the right mix of policies, technology and business models; Rooftop solar challenges and emerging solutions; Solar Home Systems and net metering; Off grid solutions- Making a difference; Solar lighting, water pumps, solar powered mobiles. Providing electrification through mini grids at competitive costs to consumers.

Invited Speakers:
• Shri Nikunj Ghodawat – CleanMax Solar
• Shri Ojasvi Gupta – Amplus Energy Solutions Pvt Ltd

24 September 2016

10:00 Hrs Financing and Risk Mitigation to Ensure Project Viability

Area of Discussion Includes: Innovative financing options; How to structure renewable projects to optimise financing and mitigate risks; What terms to expect for different types of solar projects; The checklist to follow at the project development stage to ensure easy financing of RE projects.

Invited Speakers:
• Shri Sandeep Patil, AVP - Finance Equity – Essel Infra Projects Limited
• Shri Gireesh Shrimali, Director – Climate Policy Initiative (CPI)

11:30 Hrs Solar Power Plant / Solar Park

Area of Discussion Includes: Role of DISCOMs & Land Acquisition; Regulatory issues in solar Power Plant / Solar Park; Status of Project Implementation in the key States; Implementation Issues & New Sourcing of Financing of RE Project / Consolidation of Sector.

Invited Speakers:
• Shri Gajanan Joshi, Head-Business Development (Solar Business) - Adilya Birla Group
• Shri Ashish Saraf, MD - Novus Renewables Pvt Ltd
• Shri Shaheedul Hasan, Chief Operating Officer - Solarism-KPI Global Infrastructure Ltd

Special Presentations from IIT - Bombay

14:00 Hrs Achieving the Goal “Make in India” – Panel Discussion

Area of Discussion Includes: Domestic Solar PV – Prospect and Challenges; Present Scenario entire value chain for Manufacturing of solar sector; Look forward, Present capacity and addition; Start Up in Renewable Energy and Technology transfer for efficiency of solar equipment.

Moderated By: Shri Gireesh Shrimali, Director – Climate Policy Initiative (CPI)
Shri George Mathew, Chief Executive Officer - TeamSustain Limited
Shri Sunil Jain, CEO & ED - Hero Future Energies
Shri Shaheedul Hasan, Chief Operating Officer - Solarism-KPI Global Infrastructure Ltd

Network Tea Break


The Solar Innovation & Excellence Award will be introduced at RISE 2016, honouring innovative products and solutions for better development of the solar industry in the years to come ahead...

Solar Innovation & Excellence Award will be presented each year by the organizers of Roadmap for Innovation in Solar Energy (RISE) with the support of industry associations. Over the years, the award will give solar companies a unique platform to distinguish themselves from the competition and prove just how innovative they really are.

END OF DAY 2, Look forward Meeting you at RISE 2017
Our aim is to deliver you an event that exceeds your expectations, thus becoming an integrated part of your annual marketing program.

Sponsoring this RISE 2016 will make your company stand out as a leader in this burgeoning industry and will leave a strong impression of your brand in key decision makers minds. Sponsors have an incredible amount of presence and it will not only give your company optimum exposure but also the opportunity for delegates to meet you and your executives to find out more about your role and business opportunities in the sector.

- Gain **PUBLICITY** with our advertising and promotional campaigns
- Obtain **DIRECT ACCESS** to potential clients during and after with our meticulously prepared confidential delegate list
- Receive a **KEY SPEAKING POSITION** to address an audience of top executives and decision makers from the industry
- Create **PERMANENT REMINDERS** of your product or services in conference documentation
- Profile yourself as **INDUSTRIAL LEADER**, as your corporate logo and profile will be featured prominently in event marketing collaterals
- **NETWORKING** with the industries leading Government Officials, Senior Level Delegates and Experts
- Achieve **GREATER EXPOSURE** and **BRAND BUILDING** through our partners and much more

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**Contact Mr. Ashwinkumar Kharti**

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+91 9833951556
To be successful, a company has to differentiate itself from the crowd with groundbreaking ideas and technological innovations. Today more than ever companies need to make their products and services known to gain international recognition in the growing competition. Mission Energy Foundation strives to promote the industry’s power to innovate. To this end, the Solar Innovation & Excellence Award will be presented each year by the organizers of Roadmap for Innovation in Solar Energy (RISE) with the support of industry associations. Over the years, the award will give solar companies a unique platform to distinguish themselves from the competition and prove just how innovative they really are.

The Solar Innovation & Excellence Award will be introduced at RISE 2016, honouring innovative products and solutions for better development of the solar industry in the years to come ahead...

**KEY DATES**

| JUL 15 | 0900 Hrs | Nomination Opens |
| AUG 29 | 1700 Hrs | Nomination Closes |
| SEPT 05 | 1100 Hrs | Winners Informed |
AWARD CATEGORIES

1. Photovoltaics Innovations
   Applications to this category are accepted for products and solutions, e.g. components of a product or a technical innovation, as well as services will be accepted.

2. Excellence in Rural Electrification
   Applications are accepted from new storage technologies to increase on-site consumption in residential homes, communities (Community Energy Storage, CES), apartment blocks, Short term energy storage for large-scale PV Power Plants, Using energy storage technologies to provide grid support.

3. Excellence in Energy Storage
   Applications to this category are accepted from those who provide centralized electricity generation at the local level using a village distribution network and, when fed with renewable or hybrid systems, increase access to electricity without undermining the fight against climate change. If you are one of the companies empowering the rural communities, this is a new category to recognise the manufacturers who have shown innovation in challenging environments.

4. Excellence in Solar Park
   Applications to this category are accepted from organisations for their significant contribution to the Indian solar energy sector.

5. Innovative Project
   The category pays tribute to applications that set a particularly inspiring example in driving the solar energy transformation forward. Any PV project, big or small — we want to hear about it. Was the installation innovative in some way? Did it help a community? Does it just look really awesome? As long as it’s inventive and innovative, it’ll qualify for our Innovative Project Award in three sub categories i.e, Utility Scale, Rooftop Scale and Off Grid Scale.

6. EPC Excellence
   The category pays tribute to recognize companies that have shown operational excellence as EPC contractors / turnkey solution providers for solar power plants. Projects of any size may be submitted to qualify for our Award in three sub categories i.e, Utility Scale, Rooftop Scale and Off Grid Scale.

7. Innovative Equipment
   Applications to this category are accepted from manufacturers of Inverter, Module, PV Cells, Trackers, Cable, Combiner Box / AJB, Surge Protector, Metering, Battery, Pumps and others.

8. Technology Excellence
   Applications to this category are accepted from the true indicators of technology implementation and absorption in solar industry and are meant to recognise the efforts of industry aimed at improving service, convenience and productivity by leveraging technology.

9. Service Excellence
   Applications to this category are accepted from the true indicators of service implementation and absorption in solar industry and are meant to recognise the efforts of industry aimed at improving service, convenience and productivity by leveraging service to the solar industry.

10. Banking Excellence
    Banking or non-banking financial institutions will be recognised to reward and celebrate models of inclusive growth and sustainable development as well as innovative approaches to creating value to the solar sector, and applications are accepted.
THE JURY

Dr. Srikanta K Panigrahi
Dr. Bharat Bhargava
Dr. Jami Hossain
Smt. Kalpana Jain
Shri. K S Popli

Apply for Award Now!

Contact Mr. Ashwinkumar Kharti
dg@missionenergy.org
+91 9833951556

Award Nomination Charges

22500
INR + Govt Taxes

1 Delegate Passes for Conference
Great Chance to Review your Business Practices
Put your Business in Spotlight
Opportunities to Network during Conference
Recognition and Visibility
Endorsement and Validation
Support, Influence and Impact among Businesses
Mission Energy Foundation is a persistent, private, not-for-profit endeavour based in Mumbai, India.

We are a micro-enterprise initiative that strives to spread knowledge in the globalising energy sector. We educate and spread technology awareness through ongoing contacts and discussions with the public and industry concerning what the future of the growing energy sector should be.

The beginning: A single man army with its mission to build platforms of discussion, exchange knowledge among industry professionals on core issues pertaining to growing energy sector.

Today: A human asset working together as one endeavour that expertise in organising and delivering successful international summits involving who’s who from Entrepreneurs to Academicians to Government Authorities to Technology Providers to Consultants to Industry Professionals from the growing energy sector globally.